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QCD analysis of the ATLAS and CMS W and Z cross-section measurements and implications for the strange sea density

In the present paper, the ATLAS inclusive W and Z boson production data are analysed together with the CMS inclusive W and Z boson production data to investigate any possible tensions between the data sets and to determine the strange sea fraction, within the framework of a parton distribution function fit at next-to-next-to leading order in perturbative QCD.

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